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Sequence Listing could not be accepted due to errors.

See attached Validation Report.

If you need help call the Patent Electronic Business Center at (866) 217-9197 (toll free).

Reviewer: Durreshwar Anjum

Timestamp: [year=2008; month=12; day=22; hr=12; min=50; sec=12; ms=831;  
]

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\*\*\*\*\*

Reviewer Comments:

<220>

<221> DOMAIN

<223> CDR3 amino acid sequence of BV14 clonotype derived  
from ST specimen of RA patients

<400> 137

Tyr Phe Cs Ala Ser Ser Arg Asp Gly Val Ser Tyr Glu Gln Tyr  
1 5 10 15  
Phe Gly Pro Gly

Invalid amino acid designator at location (3), Please make necessary  
changes.

\*\*\*\*\*

Application No: 10612468 Version No: 5.0

**Input Set:**

**Output Set:**

**Started:** 2008-12-09 11:51:59.401  
**Finished:** 2008-12-09 11:52:03.076  
**Elapsed:** 0 hr(s) 0 min(s) 3 sec(s) 675 ms  
**Total Warnings:** 116  
**Total Errors:** 55  
**No. of SeqIDs Defined:** 168  
**Actual SeqID Count:** 168

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E 224	<220>,<223> section required as <213> has Artificial sequence or Unknown in SEQID (1)
W 213	Artificial or Unknown found in <213> in SEQ ID (2)
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**Input Set:**

**Output Set:**

**Started:** 2008-12-09 11:51:59.401  
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**Total Errors:** 55  
**No. of SeqIDs Defined:** 168  
**Actual SeqID Count:** 168

Error code	Error Description
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W 213	Artificial or Unknown found in <213> in SEQ ID (25) This error has occurred more than 20 times, will not be displayed
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**Input Set:**

**Output Set:**

**Started:** 2008-12-09 11:51:59.401  
**Finished:** 2008-12-09 11:52:03.076  
**Elapsed:** 0 hr(s) 0 min(s) 3 sec(s) 675 ms  
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Error code	Error Description
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E 323	Invalid/missing amino acid numbering SEQID (137) POS (4)
E 323	Invalid/missing amino acid numbering SEQID (137) at Protein (5)
E 323	Invalid/missing amino acid numbering SEQID (137) POS (9)
E 323	Invalid/missing amino acid numbering SEQID (137) at Protein (10)
E 323	Invalid/missing amino acid numbering SEQID (137) POS (14)
E 331	Count of Protein differs from the <211> tag Input: 19

SEQUENCE LISTING

<110> Zhang, Jingwu Z.  
Ho, Walter Kowk Keung  
Zhang, Dongqing  
Sun, Wei

<120> T Cell Receptor CDR3 Sequence and Methods for  
Detecting and Treating Rheumatoid Arthritis

<130> D6622

<140> 10612468  
<141> 2003-07-02

<160> 168

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(TCR) in patients with rheumatoid arthritis (RA)

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<210> 3  
<211> 7  
<212> PRT  
<213> Homo sapiens

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<221> PEPTIDE  
<223> conserved amino acid sequence derived from CDR3 of  
TCR beta-chain BV16 in patients with RA

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1 5

<210> 4

<211> 7

<212> PRT

<213> Homo sapiens

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Ser Ser Gly Gly Ser Leu Phe

1 5

<210> 5

<211> 4

<212> PRT

<213> Homo sapiens

<220>

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Ser Trp Gly Gly

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<210> 6

<211> 113

<212> PRT

<213> Homo sapiens

<220>

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<223> amino acid sequence of human (beta-chain variable  
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<400> 6

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1 5 10 15

Ala Gly Pro Leu Glu Ala Gln Val Thr Gln Asn Pro Arg Tyr Leu

20 25 30

Ile Thr Val Thr Gly Lys Leu Thr Val Thr Cys Ser Gln Asn

35 40 45

Met Asn His Glu Tyr Met Ser Trp Tyr Arg Gln Asp Pro Gly Leu

50 55 60

Gly Leu Arg Gln Ile Tyr Tyr Ser Met Asn Val Glu Val Thr Asp

65 70 75

Lys Gly Asp Val Pro Glu Gly Tyr Lys Val Ser Arg Lys Glu Lys

80 85 90

Arg Asn Phe Pro Leu Ile Leu Glu Ser Pro Ser Pro Asn Gln Thr

95 100 105

Ser Leu Tyr Phe Cys Ala Ser Ser

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<212> PRT  
<213> Homo sapiens

<220>  
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1 5 10 15  
Lys Gly Gln Thr Val Thr Leu Arg Cys Asp Pro Ile Ser Gly His  
20 25 30  
Asp Asn Leu Tyr Trp Tyr Arg Arg Val Met Gly Lys Glu Ile Lys  
35 40 45  
Phe Leu Leu His Phe Val Lys Glu Ser Lys Gln Asp Glu Ser Gly  
50 55 60  
Met Pro Asn Asn Arg Phe Leu Ala Glu Arg Thr Gly Gly Thr Tyr  
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<220>  
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<210> 10  
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<400> 10  
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<210> 11  
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<400> 11  
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<210> 12  
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PCR analysis

<400> 12  
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<210> 13  
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<400> 13  
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<210> 14  
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PCR analysis

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<210> 15  
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<212> DNA  
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<400> 15  
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<210> 16  
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<210> 17  
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<210> 18  
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<210> 19  
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<210> 21  
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<210> 22  
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<210> 24  
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<210> 25  
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<210> 26  
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<210> 27  
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<210> 28  
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<210> 29  
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<212> DNA  
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<210> 30  
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<210> 31  
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<210> 32  
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<210> 33  
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<210> 36  
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<210> 37  
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<210> 43  
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<210> 44  
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<210> 45  
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<210> 47  
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